

# dude

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- Gravity **11.4 BLG**
- ABV ---
- IBU **25**
- SRM **11.2**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

## Steps

- Temp **67 C**, Time **70 min**
- Temp **78 C**, Time **15 min**

## Mash step by step

- Heat up **12 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **15 min** at **78C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2 kg (50%)	79 %	6
Grain	Strzegom Pszeniczny	0.5 kg (12.5%)	81 %	6
Grain	Strzegom Karmel 150	0.25 kg (6.3%)	75 %	150
Grain	Strzegom Wiedeński	0.5 kg (12.5%)	79 %	10
Grain	Strzegom Monachijski typ II	0.75 kg (18.8%)	79 %	22

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	30 min	10 %